

only traces of a peroxide, attempts were made to prepare lithium peroxide in the wet way, by the action of hydrogen peroxide upon solutions of lithium salts. A thermochemical study of the products showed that some Li_2O_2 is formed in this way.—On the unknown earths contained in crude samaria, by M. Eug. Demarçay. The oxide isolated contains neither samarium nor gadolinium, and is of an atomic weight between these two elements. The chief lines of the spark and absorption spectrum are described.—The reduction of erythrose and the preparation of a new erythrite, *d*-erythrite, by M. Gabriel Bertrand. Ordinary erythrite is easily oxidised by the sorbose bacterium to the ketone erythrose,



and this on treatment with sodium amalgam gives a mixture of two erythrites, one identical with the original inactive erythrite, the other, separated by means of its acetal, is active, possessing a rotatory power $[\alpha]_D = -4^\circ.76$.—Action of cyanogen chloride upon acetone-dicarboxylic ethyl ester, by M. Juvénal Derôme. The cyano-derivative produced,



readily forms metallic salts, the hydrogen adjacent to the cyanogen group being replaced.—On the metallic combinations of diphenylcarbazone, by M. P. Cazeneuve.—Osmotic pressure of the egg and experimental polyembryony, by M. E. Bataillon.—On the sub-fossil Lemuridae of Madagascar, by M. Guillaume Granddidier.—On the discovery of a cave containing animal remains at Bains-Romains, near Algiers, by MM. E. Ficheur and A. Brives. The remains found include the bones of the species *Bubalus*, *Bos*, *Cervus*, *Antilope*, *Hippopotamus*, *Rhinoceros* and *Equus*. The presence of man was indicated by a molar, flint heads, and the presence of calcined bones.—Mode of action of antileucocytic serums upon the coagulation of the blood, by M. C. Delezenne. The mode of action appears to be identical with that of a peptone, the intravenous injection of a leucolytic agent being the same in all cases, the destruction of the white corpuscles circulating in the blood.—On the restoration to life obtained by the rhythmical compression of the heart, by MM. Tuffier and Hallion. A claim for priority against M. Batelli.

DIARY OF SOCIETIES.

THURSDAY, JUNE 7.

- LINNEAN SOCIETY, at 8.—On a Viviparous Syllid Worm: E. S. Goodrich.—On the Genera *Phazoneuron*, Gilg., and *Dicellandra*, Hook f.: Dr. A. Itapf.—On the Structure and Affinities of *Echiurus uncinatus*: Miss Embleton.
- CHEMICAL SOCIETY, at 8.—Diphenyl- and Dialphyl-ethylenediamines, their Nitro-derivatives, Nitrates, and Mercuriochlorides: W. S. Mills.—Condensation of Ethyl Acetylenedicarboxylate with Bases and β -ketonic Esters: Dr. S. Kuhemann and H. E. Stapleton.—The Constitution of Pilocarpine: Dr. H. A. D. Jowett.—The Nitrogen Chlorides derivable from *m*-Chloroacetanilide and their Transformations: Dr. F. D. Chattaway, Dr. K. J. P. Orton, and W. H. Hurlley.—Derivatives of Cyanocamphor and Homocamphoronic Acid: Dr. A. Lapworth.
- RÖNTGEN SOCIETY (St. Bartholomew's Hospital), at 8.—Dr. Lewis Jones will show an Influence Machine of American design.—Mr. James Wimshurst, F.R.S., will give a short statement of his work in the design and the perfecting of the several forms of his Influence Machine.—Dr. Rémy, of Paris, will show a new Localising Apparatus.

FRIDAY, JUNE 8.

- ROYAL INSTITUTION, at 9.—The Effect of Physical Agents on Bacterial Life: Dr. Allan Macfadyen.
- PHYSICAL SOCIETY, at 5.—On the Magnetic Properties of Iron and Aluminium Alloys, Part II.: Dr. S. W. Richardson.—Note on Crystallisation produced in Solid Metal by Pressure: W. Campbell.—On the Viscosity of Mixtures of Liquids and of Solutions: Dr. C. H. Lees.
- ROYAL ASTRONOMICAL SOCIETY, at 8.—Note on a Meteoric Shower South of Corvus: W. F. Denning.—Theory of the Motion of the Moon, Part III. Chapter vi.: Ernest W. Brown.—The Solar Eclipse of 1900 May 28 observed at Stonyhurst: Rev. W. Sidgreaves.—The Solar Eclipse of 1900 May 28 observed at Norwich: G. J. Newbegin.—The Total Solar Eclipse of 1900 May 28 observed at Navalmaral, Spain: Rev. S. J. Johnson.—*Probable Papers*: Description of the Durham Almacantar: R. A. Sampson.—The Cause of the Shadow Bands seen in connection with Total Eclipses of the Sun: G. Johnstone Stoney.
- MALACOLOGICAL SOCIETY, at 8.—Note on Two Apparently Undescribed Species of *Bensonina*: W. T. Blanford.—The Non-marine Mollusca of Norfolk Island: E. R. Sykes.—Among the Exhibitions will be Specimens of *Volutilithes abyssicola*, *Ebura papillaris*, and *Bullia annulata* from South Africa, also *Cypraea nigricans*, together with other New Caledonian Cowries: G. B. Sowerby.—Dissections of the Genitalia of *Acarus*: W. B. Randles.

MONDAY, JUNE 11.

SOCIETY OF CHEMICAL INDUSTRY, at 8.—The Maintenance of Aeration as a Standard of Purity of Sewage Effluents: W. J. Dibbin and G. Thudichum.—The Composition and Determination of Cerium Oxalate: Dr. Frederick B. Power and Frank Shedden.—The Production of Nitrate of Soda in Chili: F. G. Welch.

TUESDAY, JUNE 12.

ANTHROPOLOGICAL INSTITUTE, at 8.30.
ROYAL PHOTOGRAPHIC SOCIETY, at 8.—The Construction of Photographic Objectives: Mathematical Investigation: H. L. Aldis.

THURSDAY, JUNE 14.

ROYAL SOCIETY, at 4.—Election of Fellows.—At 4.30.—*Probable Papers*: Some New Observations on the Static Diffusion of Gases and Liquids, and their Significance in certain Natural Processes occurring in Plants: H. T. Brown, F.R.S., and F. Escombe.—The Electrical Effects of Light upon Green Leaves (Preliminary Communication): Dr. A. D. Waller, F.R.S.—The Exact Histological Localisation of the Visual Area of the Human Cerebral Cortex: Dr. J. S. Bolton.—The Diffusion of Ions produced in Air by the Action of a Radio-active Substance, Ultra-violet Light and Point Discharges: J. S. Townsend.—Data for the Problem of Evolution in Man. V. On the Correlation between Duration of Life and the Number of Offspring: Miss M. Beeton, G. U. Yule, and Prof. K. Pearson, F.R.S.—On an Artificial Retina and a Theory of Vision, Part I.: Prof. J. C. Bose.

MATHEMATICAL SOCIETY, at 5.30.—Some Multiform Solutions of the Partial Differential Equations of Physical Mathematics and their Applications, Part II.: H. S. Carslaw.—Some Quadrature Formulæ: W. F. Sheppard.—Notes on Concomitants of Binary Quantics: Prof. Elliott, F.R.S.—Extensions of the Riemann-Roch Theorem in Plane Geometry: Dr. Macaulay.—On the Invariants of a certain Differential Expression connected with the Theory of Geodesics: J. E. Campbell.—On the Constants which occur in the Differentiation of Theta Functions: Rev. M. M. U. Wilkinson.

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